

WHAT IS CLAIMED IS:

*Subj B*

(1) A reel rotation and detection mechanism for a video cassette deck comprising;

a light emitting element for conducting the leading and entraining end detection of a magnetic tape within a cassette set within the video cassette deck, a light guiding member for guiding the light from the light emitting element into the cassette for conducting the leading and entraining detection of the magnetic tape, and directly guiding the light onto the side of the reel for the rotation and detection of the reel, a light receiving element for receiving the light guided onto the side of the reel, a light passing portion or a light screening portion provided on the reel so as to cross the light path reaching from the light guiding member to the light receiving element through the rotation of the reel, characterized in that the light emitting element and the light receiving element are provided under the deck chassis for mounting main components including the reel of the video cassette deck, and the light guiding member guides the light from the light emitting element to the light receiving element under the deck chassis by way of the light passing portion or the light screening portion provided on the reel on the deck chassis.

b (2) A reel rotation and detection mechanism for a video cassette deck according to claim 1, wherein the deck chassis has an opening portion for light transmission for transmitting the light *towards said light receiving element downwards from the above.*

(3) A reel rotation and detection mechanism for a video cassette deck according to claim 1 or 2, wherein the light guiding member has a pillar portion extending through the deck chassis to guide the light coming from the light emitting element into the cassette on the deck chassis, and a branch portion extending sideways from the pillar portion to illuminate the light to the light receiving element, the branch portion being positioned above the deck chassis and opposite to the light passing portion or the light screening portion provided in the reel on the deck chassis.

(4) A reel rotation and detection mechanism for a video cassette deck according

to claim 1, 2 or 3, wherein the light passing portion or the light screening portion is provided in the disk portion provided integrally on the reel, and the branch portion is opposite from above to the light passing portion or the light screening portion.

(5) A reel rotation and detection mechanism for a video cassette deck according to claim 1, 2, 3 or 4, wherein the light emitting element and the light receiving element are engaged on the substrate provided under the deck chassis.

(6) A reel rotation and detection mechanism for a video cassette deck according to claim 1, 2, 3, 4 or 5, wherein the light receiving element for tape detection use for receiving the light guided into the cassette to detect the leading and entraining ends of the magnetic tape is provided under the deck chassis, and a reflection plate for reflecting the light downwards from above the deck chassis is provided above the deck chassis.

(7) A reel rotation and detection mechanism for a video cassette deck according to claim 6, wherein the light receiving element for detecting the tape, together with the light emitting element and the light receiving element, are engaged with on the substrate under the deck chassis.

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